

FR 2305168

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DIALOG(R) File 351:Derwent WPI
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001670713 WPI Acc No: 1977-A7178Y/197704

Patient respiration stimulation system - uses catheters with electrodes near phrenic nerves thrust into subclavian vein to receive electrical impulses

Patent Assignee: IERAM INS EUR RECH (IERA-N)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2305168	A	19761126			197704	B

Priority Applications (No Type Date): FR 759106 A 19750324

Abstract (Basic): FR 2305168 A

The system control the respiratory movements of a patient into whose veins two cathodes are inserted, each equipped with an electrode. These are thrust as far as the subclavian vein, adjacent to the right and left phrenic nerves, which are then stimulated by electrical impulses. The impulses can consist of salvos of impulses whose duration is only a few microseconds.

Patient respiration can be monitored, impulses being delivered only when it is insufficient, or does not resume after a preset period of stoppage. The respiration monitor delivers a signal to a logic unit, which compares it with values fed by an operator. It then issues commands to a waveform generator supplying the salvos of impulses to the electrodes.

Title Terms: PATIENT; RESPIRATION; STIMULATING; SYSTEM; CATHETER; ELECTRODE ; NERVE; THRUST; SUBCLAVIAN; VEIN; RECEIVE; ELECTRIC; IMPULSE

Derwent Class: P33

International Patent Class (Additional): A61H-031/00

File Segment: EngPI